

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An electrostatic developer, comprising:

toner-containing image-forming particles and an uncrosslinked, linear hydrocarbon based homopolymer wax,

wherein said wax has a total number of branches in each of one or more chains that is less than 0.5%, relative to a total number of carbons in said wax,

wherein said wax has a set of ~~endotherms~~ endotherm peaks as determined by differential scanning calorimetry (DSC) run at a maximum rate of 10°C per minute at increasing temperature, said ~~endotherms~~ characterized by endotherm peaks including a primary endotherm peak and at least a secondary endotherm peak, said primary endotherm peak in exhibiting a temperature range of between 70°C and 90°C and said secondary endotherm peak in exhibiting a temperature range of between 95°C and 110°C;

wherein said wax has a crystallinity of from 78 to 82% as determined by small angle X-ray diffraction analysis;

wherein said wax has a molecular weight polydispersity (Mw/Mn) in the range of 1.1-1.3, wherein the number average molecular weight, Mn, is in the range of 700-790 and the weight average molecular weight, Mw, is in the range of 890-1000; and

wherein said wax has the following branching:

- 0 - 0.20 methyl branches per 100 carbon atoms,
- 0 - 0.10 ethyl branches per 100 carbon atoms and
- 0 - 0.10 butyl branches per 100 carbon atoms.

Claims 2-4 (Canceled).

Claim 5 (Original): The electrostatic developer of claim 1, wherein said wax is further characterized by a particle size in the range of 1 to 10 μm .

Claim 6 (Original): The electrostatic developer of claim 1, wherein said wax is obtained by a process comprising:

in a reactor vessel, gasifying and subsequently liquifying coal to produce a wax residue in the reactor vessel, said reactor vessel containing sides with interior surfaces, wherein the wax residue forms on said surfaces;

milling said wax residue, substantially by a jet mill to accomplish micronizing of the wax.

Claim 7 (Canceled).

Claim 8 (Original): The electrostatic developer of claim 1, wherein said toner is a monocomponent toner.

Claim 9 (Original): The electrostatic developer of claim 1, wherein said toner is a dual component toner.

Claim 10 (Original): The electrostatic developer of claim 9, wherein said toner further comprises magnetic particles.

Claim 11 (Original): The electrostatic developer of claim 1, wherein said toner further comprises a binder resin.

Claim 12 (Original): The electrostatic developer of claim 1, wherein said toner further comprises a binder resin, and wherein said wax is present in an amount of 0.1-20 parts by weight per 100 parts of the binder resin.

Claim 13 (Original): The electrostatic developer of claim 1, said toner further comprises a binder resin, and wherein said wax is present in an amount of 0.1-7.0 parts by weight per 100 parts of binder resin.

Claim 14 (Original): The electrostatic developer of claim 1, said toner further comprises a binder resin, and wherein said wax is present in an amount of 1.0-6.0 parts by weight per 100 parts of binder resin.

Claim 15 (Original): The electrostatic developer of claim 1, further comprising one or more inorganic oxides selected from the group consisting of SiO₂, Al₂O₃, W₂O₃, ZrO₂, SeO, TiO₂, ZnO, MgO, and mixtures thereof.

Claims 16-18 (Canceled).

Claim 19 (Original): A toner cartridge comprising a cartridge and the electrostatic developer according to claim 1.

Claim 20 (Original): In an electrophotographic apparatus, wherein the improvement comprises the use of a toner cartridge according to claim 19.

Claim 21 (Currently Amended): An electrostatic developer, comprising:
toner-containing image-forming particles and an uncrosslinked, linear hydrocarbon based homopolymer wax;
wherein said wax has a total number of branches in each of one or more chains that is less than 0.5%, relative to a total number of carbons in said wax;
wherein said wax has a set of ~~endotherms~~ endotherm peaks as determined by differential scanning calorimetry (DSC) run at a maximum rate of 10°C per minute at increasing temperature, said ~~endotherms characterized by~~ endotherm peaks including a primary endotherm peak and at least a secondary endotherm peak, said primary endotherm peak in exhibiting a temperature range of between 70°C and 90°C and said secondary endotherm exhibiting peak in a temperature range of between 95°C and 110°C; and
wherein said wax has a crystallinity of from 75 to 90% as determined by small angle X-ray diffraction analysis.

Claim 22 (Previously Presented): The electrostatic developer of Claim 21,
wherein said wax has a molecular weight polydispersity (Mw/Mn) in the range of 1.1-1.3, wherein the number average molecular weight, Mn, is in the range of 700-790 and the weight average molecular weight, Mw, is in the range of 890-1000; and
wherein said wax has the following branching:
>0 to 0.20 methyl branches per 100 carbon atoms,
>0 to 0.10 ethyl branches per 100 carbon atoms, and
>0 to 0.10 butyl branches per 100 carbon atoms.